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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/737,536	12/13/2000	Daniel M. Bartell	3309	. 9763
75	90 09/30/2003			
Chief IP Counsel - Legal Dept. Affymetrix, Inc. 3380 Central Expressway Santa Clara, CA 95051			EXAMINER	
			MARSCHEL, ARDIN H	
			ART UNIT	PAPER NUMBER
-	•		1631	
			DATE MAILED: 09/30/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.   Applicant(s)   Application No.   Applicant(s)   Applicant(s)   BARTELL ET AL.	•	Ţ.	<u> </u>					
Examiner	-		Application No.	Applicant(s)				
Ardin. Marschel  - The MAILING DATE of this communication appears on the c_ver sheet with the correspond_nce address  Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  If the period for reply specified above is less than thisy (80) days, a reply within the dativide you minimum of thiny (20) days will be considered timely.  If the period for reply specified above is less than thisy (80) days, a reply within the dativide you will be considered timely.  If the period for reply specified above is less than thisy (80) days, a reply within the dativide you will be considered dimely.  If the period for reply specified above is less than thisy (80) days, a reply within the dativide you will be considered dimely.  If the period for reply specified above is less than thisy (80) days, a reply within the dativide you will be considered timely.  If the period for reply specified above is less than thisy (80) days, a reply within the dativide you will be considered timely.  If the period for reply specified above is less than thisy (80) days, a reply less timely filed, reply reduce any search period and period to the communication, even if timely filed, reply reduce any search period and the period of the communication, even if timely filed, reply reduce any search period of the communication is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) is are pending in the application.  4) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are eliceted.  7) Claim(s) is/are eliceted.  7) Claim(s) is/are eliceted to by the Examiner.  Application Papers			09/737,536	BARTELL ET AL.				
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Editable of the property be smallede under the provisions of 37 CFR 1.136(a), in no event, however, may a repty be timely field  Editable of the property be smallede under the provisions of 37 CFR 1.136(a), in no event, however, may a repty be timely field  If the princip for repty specified above, the maximum statutory period will apply and will expire SIX (b) MONTES from the mailing date of this communication.  If the princip for repty specified above, the maximum statutory period will apply and will expire SIX (b) MONTES from the mailing date of this communication. The princip statute of the princip statute of the communication, even if timely filled, may reduce any search plants term adjustment. See 37 CFR 1.784(b).  Status  1) Responsive to communication(s) filled on		<u> </u>	<b>!</b>					
THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provision of 3 CFR 1.13(a). In no event, however, may a reply be timely field after SX (6) MONTHS from the mailing date of this communication. The provision of the provision of the communication of the communication of the provision of the pr								
2a)  This action is FINAL. 2b)  This action is non-final.  3   Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s)  1-52 is/are pending in the application.  4a) Of the above claim(s)  is/are withdrawn from consideration.  5)  Claim(s)  is/are allowed.  6)  Claim(s)  is/are rejected.  7)  Claim(s)  is/are objected to.  8)  Claim(s)  1-52 are subject to restriction and/or election requirement.  Application Papers  9   The specification is objected to by the Examiner.  10   The drawing(s) filed on  is/are: all accepted or bill objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11   The proposed drawing correction filed on  is: all approved by disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12   The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13   Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All by  Some * cyll None of:  1   Certified copies of the priority documents have been received in Application No.  in Copies of the ordified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies on the certified copies of the priority documents have been received.  14)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a)  The translation of the foreign language provisional application has been received.  15)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
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	2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informa					

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## **DETAILED ACTION**

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-31, drawn to a method, computer software product, and system wherein a plurality of intensity values for first and second microarray spots are analyzed via a Wilcoxon' rank sum test with a  $\theta = 0$  null hypothesis and an alternative hypothesis where  $\theta < 0$  to indicate whether the first spot is different from the second spot, classified in class 702, subclass 19. If this Group is elected then the below summarized specie election is also required.
- II. Claims 32-52, drawn to a method, computer software product, and system wherein a plurality of perfect match (PM) and mismatch (MM) pixel intensity values for a transcript are analyzed via a Wilcoxon' rank sum test with a null hypothesis that PM MM = a threshold and an alternative hypothesis that median PM median MM > than said threshold to indicate whether a transcript is present, classified in class 702, subclass 19. If this Group is elected then the below summarized specie election is also required.

## SPECIE ELECTION REQUIREMENT FOR GROUPS I AND II:

This application contains claims directed to the following patentably distinct species of the claimed invention:

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Specie A: methods etc. wherein spots or pixels are analyzed for purposes other than for nucleic acid probe comparison

Specie B: methods etc. wherein spots or pixels are analyzed for nucleic acid probe comparison.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1-20 (Group I) and claims 32-45 (Group II) are generic regarding the above species in each Group. The above species are distinct from each other because the analysis of spots or pixels directed to nucleic acid probe comparison is reasonably a microarray design practice as in Specie B, whereas microarray spot or pixel analysis is more commonly applied to the analysis of results of hybridization or binding experiments or studies well after the microarray design process is complete. Thus, these two species are most commonly separately published and disclosed thus documenting the undue search burden if they were searched together.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims

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are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

The inventions are distinct, each from the other because of reasons set forth above regarding the species and as follows required the restriction groups:

The inventions of Group I and Group II are related regarding utilizing a Wilcoxon's rank sum test but with the critical features therein being completely different subject matter. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are directed to different and distinct subject matter regarding the Group I calculations regarding the  $\theta = 0$  null hypothesis and an alternative hypothesis where  $\theta < 0$  compared to the Group II null hypothesis that PM – MM = a threshold and an alternative hypothesis that median PM – median MM > than said threshold to indicate whether a transcript is present. Therefore the inventions are directed to different modes of operation and result in different effects.

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Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993)(See 37 CFR § 1.6(d)). The CM1 Fax Center number is either (703)308-4242 or (703)305-3014.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ardin Marschel, Ph.D., whose telephone number is (703)308-3894. The examiner can normally be reached on Monday-Friday from 8 A.M. to 4 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward, Ph.D., can be reached on (703)308-4028.

Any inquiry of a general nature or relating to the status of this application should be directed to Legal Instrument Examiner, Tina Plunkett, whose telephone number is (703)305-3524 or to the Technical Center receptionist whose telephone number is (703) 308-0196.

September 24, 2003

ARDIN H. MARSCHEL'